



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
Great Plains Regional Office
115 Fourth Avenue S.E., Suite 400
Aberdeen, South Dakota 57401



IN REPLY REFER TO:

DESCRM

MC-208

FEB 06 2012

MEMORANDUM

TO: Superintendent, Fort Berthold Agency

FROM: ^{ACTING} Regional Director, Great Plains Region

SUBJECT: Environmental Assessment Addendum and Finding of No Significant Impact

In compliance with the regulations of the National Environmental Policy Act (NEPA) of 1969, as amended, an Environmental Assessment Addendum has been completed and a Finding of No Significant Impact (FONSI) has been issued. The Addendum authorizes land use for one additional well on the Fort Berthold #149-94-29B-32-1H well pad on the Fort Berthold Indian Reservation.

All the necessary requirements of the National Environmental Policy Act have been completed. Attached for your files is a copy of the EA Addendum, FONSI and Notice of Availability. The Council on Environmental Quality (CEQ) regulations require that there be a public notice of availability of the (40 C.F.R. Section 1506.6(b)). Please post the attached notice of availability at the Agency and Tribal buildings for 30 days.

If you have any questions, please call Marilyn Bercier, Regional Environmental Scientist, Division of Environment, Safety and Cultural Resources Management, at (605) 226-7656.

Attachment

cc: Tex Hall, Chairman, Three Affiliated Tribes (with attachment)
Elgin Crows Breast, Tribal Historic Preservation Officer (with attachment)
Derek Enderud, BLM, Bureau of Land Management (with attachment)
Eric Wortman, EPA (with attachment)
Jason Bivens, SWCA (with attachment)
Jonathon Shelman, Corps of Engineers
Jeff Hunt, Fort Berthold Agency

Finding of No Significant Impact

***Petro-Hunt, LLC
Everett Fisher, Fisher and Henry Charging Pipelines***

***Addendum to:
Environmental Assessment Authorizing One Additional Well and Authorizing Land Use for a Shift of
the Fort Berthold #149-94-29B-32-1H Well Pad***

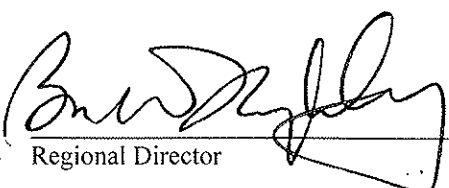
***Fort Berthold Indian Reservation
Dunn County, North Dakota***

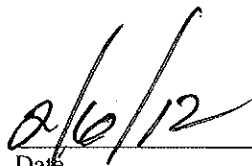
The U.S. Bureau of Indian Affairs (BIA) has received a proposal for an addendum to the above referenced Environmental Assessments (EA). The proposal is to authorize Petro-Hunt to drill an additional well (Fort Berthold #148-94-29B-32-2H) and to authorize land use by Petro-Hunt for construction activities associated with the shifting of the previously authorized Fort Berthold #148-94-29B-32-1H well pad (well pad) to comply with landowner permissions. The well pad is proposed in the SW¼ SW¼ of Section 20, Township (T) 148 North (N), Range (R) 94 West (W), Dunn County, North Dakota, On the Fort Berthold Reservation. Associated federal actions by BIA include determinations of impacts and effects regarding environmental resources for developments on tribal lands.

The potential of the proposed actions to impact the human environment is analyzed in the attached addendum to an existing EA, as required by the National Environmental Policy Act. Based on the recently completed addendum to the EA, I have determined that the proposed project will not significantly affect the quality of the human environment. No Environmental Impact Statement is required for any portion of the proposed activities.

This determination is based on the following factors:

1. Agency and public involvement solicited for the preceding NEPA document was sufficient to ascertain potential environmental concerns associated with the currently proposed project.
2. Protective and prudent measures were designed to minimize impacts to air, water, soil, vegetation, wetlands, wildlife, public safety, water resources, and cultural resources. The remaining potential for impacts was disclosed for both the proposed actions and the No Action alternative.
3. Guidance from the U.S. Fish and Wildlife Service has been fully considered regarding wildlife impacts, particularly in regard to threatened or endangered species. This guidance includes the Migratory Bird Treaty Act (16 U.S.C. 703 et seq.), the National Environmental Policy Act of 1969, as amended (42 U.S.C. 4321 et seq.), the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d, 54 Stat. 250), Executive Order 13186 "Responsibilities of Federal Agencies to Protect Migratory Birds", and the Endangered Species Act (16 U.S.C. 1531 et seq.).
4. The proposed actions are designed to avoid adverse effects to historic, archaeological, cultural and traditional properties, sites and practices. Compliance with the procedures of the National Historic Preservation Act is complete.
5. Environmental justice was fully considered.
6. Cumulative effects to the environment are either mitigated or minimal.
7. No regulatory requirements have been waived or require compensatory mitigation measures.
8. The proposed projects will improve the socio-economic condition of the affected Indian community.

ACTING

Regional Director


Date

ENVIRONMENTAL ASSESSMENT Addendum

United States Bureau of Indian Affairs

**Great Plains Regional Office
Aberdeen, South Dakota**



Petro-Hunt, LLC

**Addendum to Environmental Assessment Authorizing One Additional Well and
Authorizing Land Use for a Shift of the Fort Berthold #149-94-29B-32-1H Well Pad**

Fort Berthold Indian Reservation

January 2012

For information contact:
Bureau of Indian Affairs, Great Plains Regional Office
Division of Environment, Safety and Cultural Resources Management
115 4th Avenue SE, Aberdeen, South Dakota 57401
(605) 226-7656

TABLE OF CONTENTS

	<u>Page</u>
1. Purpose and Need for the Proposed Action	1
2. Authorities	1
3. Legal Land Description for Proposed Action	1
4. Scope of Work for Proposed Action	1
5. Surveys for Proposed Action	2
6. Potential Effects	2
7. Applicable NEPA Document(s)	3
8. NEPA Adequacy Criteria	3

<u>Figure</u>	<u>Page</u>
1 Proposed Location of Well Pad Shift of Fort Berthold #148-94-29B-32-1H, 2H Well Pad	5

<u>Appendix</u>	
A Well Pad Layout and Additional Plats for Fort Berthold #148-94-29B-32-1H, 2H Well Pad	

1. Purpose and Need for the Proposed Action

Petro-Hunt, LLC (Petro-Hunt) is drilling two exploratory oil and gas wells on the Fort Berthold Indian Reservation to evaluate and possibly develop the commercial potential of natural resources. Developments have been proposed on land held in trust by the United States in Dunn County, North Dakota. The Bureau of Indian Affairs (BIA) is the surface management agency for potentially affected tribal lands and individual allotments. The BIA also holds title to subsurface mineral rights. The economic development of available resources and associated BIA actions are consistent with BIA's general mission. Leasing and development of mineral resources offers substantial economic benefits to the Three Affiliated Tribes of the Mandan, Hidatsa, and Arikara Nations and to individual tribal members.

The purpose of the proposed action is to authorize Petro-Hunt to drill an additional well (Fort Berthold #148-94-29B-32-2H) and to authorize land use by Petro-Hunt for construction activities associated with the shifting of the previously authorized Fort Berthold #148-94-29B-32-1H well pad (well pad) to comply with landowner permissions. The previously approved access road for this well pad will remain unchanged.

2. Authorities

Oil and gas exploration and development activities are conducted under authority of the Indian Mineral Leasing Act of 1938 (25 United States Code [USC] 396a, et seq.), the Indian Mineral Development Act of 1982 (25 USC 2101, et seq.), and the Energy Policy Act of 2005 (42 USC 15801, et seq.).

3. Legal Land Description for Proposed Action

The well pad is proposed in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 20, Township (T) 148 North (N), Range (R) 94 West (W), Dunn County, North Dakota (Figure 1). This location is approximately 8 miles south of Mandaree, North Dakota.

4. Scope of Work for Proposed Action

Petro-Hunt proposes to shift the location of the well pad to comply with landowner permissions. Figure 1 and Appendix A provide a detailed project area map and plat schematics of the newly proposed well pad location, original well pad location, and access road. The original Fort Berthold #148-94-29B-32-1H well pad disturbed approximately 5.982 acres. The new location of the proposed Fort Berthold #148-94-29B-32-1H, -2H dual well pad would disturb approximately 6.307 acres. Therefore, approximately 0.325 additional acres would be disturbed by shifting the previously approved pad. There will be no additional disturbance for the previously approved access road.

The Fort Berthold #148-94-29B-32-1H oil well would enter the Upper Three Forks Formation and use a 1,280-acre spacing unit with the bottom hole located approximately 10,532 feet south and 530 feet east of the surface location in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 32, T148N, R94W,

Dunn County, North Dakota. The Fort Berthold #148-94-29B-32-2H oil well would enter the Middle Bakken Formation and use a 1,280-acre spacing unit with the bottom hole located approximately 10,531 feet south and 416 feet west of the surface location in the SW¼ SW¼ of Section 32, T148N, R94W, Dunn County, North Dakota.

5. Surveys for Proposed Action

SWCA Environmental Consultants (SWCA) conducted natural resource surveys for threatened and endangered species and suitable habitat, migratory birds, bald and golden eagles and their nests, and wetlands/waterbodies at the proposed well pad location and surrounding area on May 5, 2010. SWCA conducted additional natural resource surveys on May 3, 2011 to accommodate the well pad shift. BIA Environmental Specialist Jeff Desjarlais approved the location of the well pad and access road. No primary or secondary indications of protected species occurrences were observed during the field surveys.

A cultural resource inventory for this well pad expansion project was conducted by personnel of SWCA Environmental Consultants, using an intensive pedestrian methodology. Approximately 11.2 acres were inventoried between May 3 and 12, 2011 (Schleicher 2011). No historic properties were located that appear to possess the quality of integrity and meet at least one of the criteria (36 CFR 60.6) for inclusion on the National Register. As the lead federal agency, and as provided for in 36 CFR 800.5, on the basis of the information provided, BIA reached a determination of no historic properties affected for this undertaking. This determination was communicated to the THPO on December 21, 2011; however the THPO did not respond within the allotted 30 day comment period.

Schleicher, Jolene

(2011) A Class I and Class III Cultural Resources Inventory of the Petro-Hunt Fort Berthold #148-94-29B-32-1H, 2H Dual Well Pad, Fort Berthold Indian Reservation, Dunn County, North Dakota. SWCA Environmental Consultants for Petro-Hunt, LLC, Bismarck.

6. Potential Effects

Potential effects of the proposed well pad shift could include the disturbance and loss of any cultural resource sites eligible for the National Register of Historic Places within the proposed ROW, or short-term disturbance of native vegetation and wildlife habitats, soil removal and mixing, and erosion during construction. In total, initial construction disturbance would affect approximately 13.124 acres; 6.307 acres of disturbance from the well pad and 6.817 acres from the access road. Potential indirect effects of the proposal could include release of sediment or fluids from the well pad, construction noise or traffic disturbance of general wildlife, and possible introduction of noxious weeds. Potential cumulative impacts of the proposal plus other foreseeable future oil and gas development on the Fort Berthold Indian Reservation could include habitat fragmentation from construction of other well pads and roads. Any potential direct effects would be mitigated by surveying for and avoiding any eligible cultural resource sites; implementing an approved stormwater pollution prevention

plan and erosion control devices; avoiding any wetlands and any federally listed threatened or endangered species or designated critical habitat; avoiding nesting migratory birds; and completing reclamation using appropriate native vegetation.

Any potential indirect effects would be mitigated by locating access roads and reserve pits on the upslope (cut) side of well pads, as shown in Appendix A; stockpiling and re-using topsoil for reclamation; implementing best management practices for controlling introduction of noxious weeds; and minimizing the length of time between drilling and reclamation. Based on the resource surveys, evaluation of potential effects and mitigation measures, and consistency with the applicable NEPA documents, no significant direct, indirect, or cumulative impacts to natural and cultural resources are anticipated as a result of the changes proposed in this addendum.

7. Applicable NEPA Document(s)

Environmental Assessment: Petro Hunt, LLC, Three Three Forks Exploratory Oil Wells: Fort Berthold #148-94-19D-18-1H, Fort Berthold #148-94-30A-31-1H, Fort Berthold #148-94-29B-32-1H (November 2010).

Environmental Assessment and Finding of No Significant Impact: Petro-Hunt, LLC. Width Increases for the Fort Berthold #148-94-19D-18-1H/Fort Berthold #148-94-30A-31-1H and Fort Berthold #148-94-29B-32-1H Access Roads (March 2011).

8. NEPA Adequacy Criteria

This document has identified two previously prepared NEPA document, *Environmental Assessment: Petro Hunt, LLC, Three Three Forks Exploratory Oil Wells: Fort Berthold #148-94-19D-18-1H, Fort Berthold #148-94-30A-31-1H, Fort Berthold #148-94-29B-32-1H* (November 2011) and *Environmental Assessment and Finding of No Significant Impact: Petro-Hunt, LLC. Width Increases for the Fort Berthold #148-94-19D-18-1H/Fort Berthold #148-94-30A-31-1H and Fort Berthold #148-94-29B-32-1H Access Roads* (March 2011), which adequately describes the environmental consequences of the newly proposed action described herein, and meets the following NEPA Adequacy Criteria.

1. The proposed action is substantially the same action and at the site specifically analyzed in the existing NEPA document.
2. The range of alternatives is reasonable with respect to the current proposed action in the existing NEPA document, which appropriately considers and analyzes current environmental concerns, interests, and resource values.
3. The existing analysis and conclusions are adequate in the existing NEPA document. The analysis is still valid in light of new studies or resource assessment information.
4. The methodology and analytical approach used in the existing NEPA document continues to be appropriate for the proposed action.
5. The direct and indirect impacts of the proposed action are unchanged from those identified in the existing NEPA document.

*Addendum to Environmental Assessment Authorizing One Additional Well and Authorizing
Land Use for a Shift of the Fort Berthold #149-94-29B-32-1H, 2H Well Pad
(January 2012)*

6. The cumulative impacts that would result from implementation of the proposed action are unchanged from those analyzed in the existing NEPA document.
7. A 30-day comment period involving public input and interagency review was used in the development of the existing NEPA document.

*Addendum to Environmental Assessment Authorizing One Additional Well and Authorizing
Land Use for a Shift of the Fort Berthold #149-94-29B-32-1H, 2H Well Pad
(January 2012)*

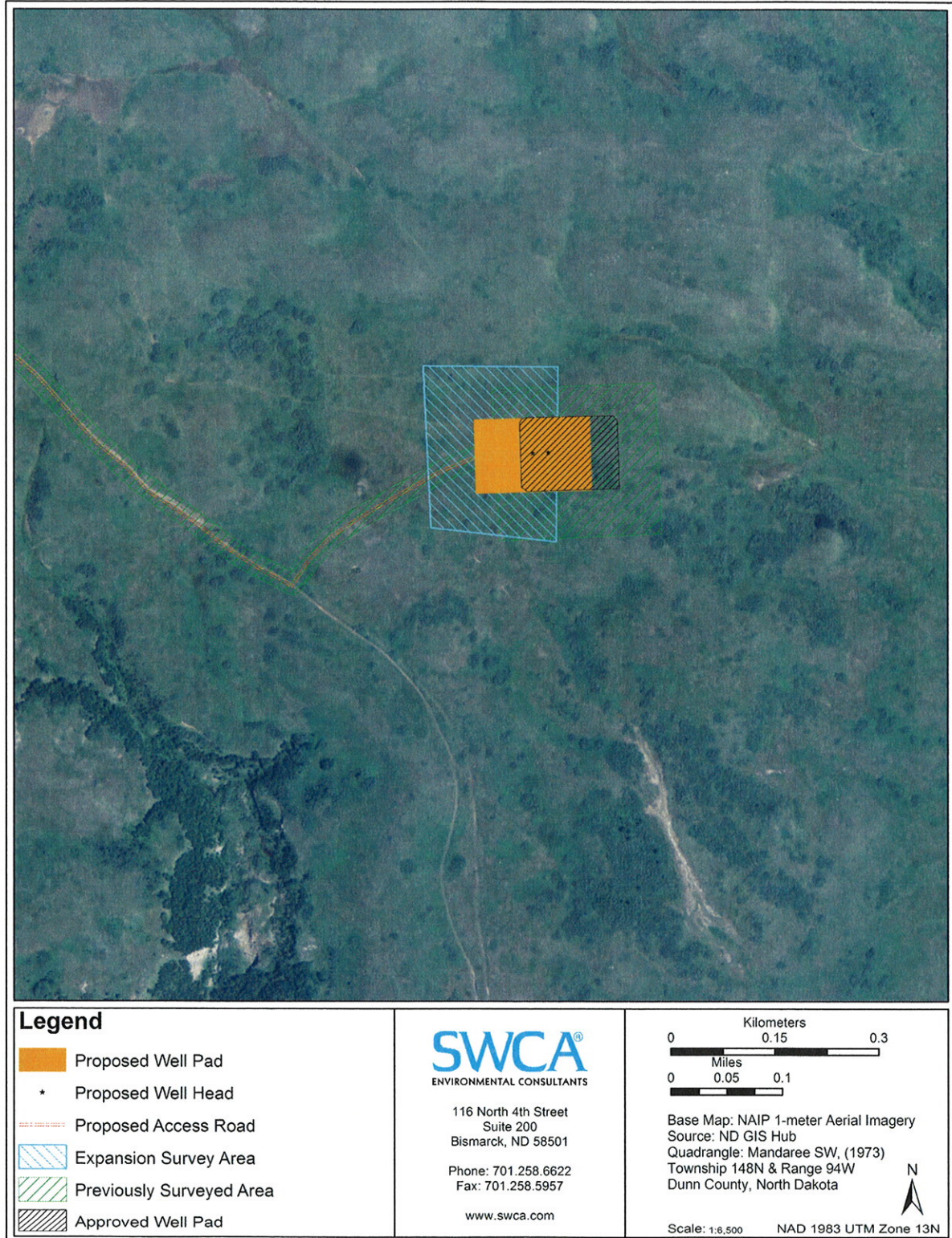


Figure 1. Proposed Location of Fort Berthold #148-94-29B-32-1H, 2H well pad.

*Addendum to Environmental Assessment Authorizing One Additional Well and Authorizing
Land Use for a Shift of the Fort Berthold #149-94-29B-32-1H, 2H Well Pad
(January 2012)*



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115 Fourth Avenue S.E., Suite 400
Aberdeen, South Dakota 57401



DEC 21 2011

Elgin Crows Breast, THPO
Mandan, Hidatsa and Arikara Nation
404 Frontage Road
New Town, North Dakota 58763

Dear Mr. Crows Breast:

We have considered the potential effects on cultural resources of a proposed well pad expansion in Dunn County, North Dakota. Approximately 11.2 acres were inventoried using an intensive pedestrian methodology. Surface disturbances are not expected to exceed the area depicted in the enclosed report. No historic properties were located which appear to possess the quality of integrity and meet at least one of the criteria (36 CFR 60.4) for inclusion on the National Register of Historic Places. No properties were located that appear to qualify for protection under the American Indian Religious Freedom Act (42 USC 1996).

As the surface management agency, and as provided for in 36 CFR 800.5, we have therefore reached a determination of **no historic properties affected** for this undertaking. Catalogued as **BIA Case Number AAO-1744/FB/10**, the undertaking, location, and project dimensions are described in the following report:

Schleicher, Jolene

(2011) A Class I and Class III Cultural Resources Inventory of the Petro-Hunt Fort Berthold #148-94-29B-32-1H, 2H Dual Well Pad, Fort Berthold Indian Reservation, Dunn County, North Dakota.
SWCA Environmental Consultants for Petro-Hunt, LLC, Bismarck.

If your office concurs with this determination, consultation will be completed under the National Historic Preservation Act and its implementing regulations. We will adhere to the Standard Conditions of compliance.

If you have any questions, please contact Dr. Carson N. Murdy, Regional Archaeologist, at (605) 226-7656.

Sincerely,

ACTING Regional Director

Enclosure

cc: Chairman, Three Affiliated Tribes
Superintendent, Fort Berthold Agency

APPENDIX A

**Plats Depicting the Well Pad Layout for
Fort Berthold #148-94-29B-32-1H, 2H Well Pad**

PETRO-HUNT, L.L.C.
FORT BERTHOLD #148-94-29B-32-1H & #148-94-29B-32-2H
 LOCATED IN DUNN COUNTY, NORTH DAKOTA
 SECTION 20, T148N, R94W, 5th P.M.



PHOTO: VIEW FROM CORNER #9 TO LOCATION STAKE

CAMERA ANGLE: SOUTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

- Since 1964 -

LOCATION PHOTOS

05 **21** **10**
 MONTH DAY YEAR

PHOTO

TAKEN BY: B.J.

DRAWN BY: J.H.

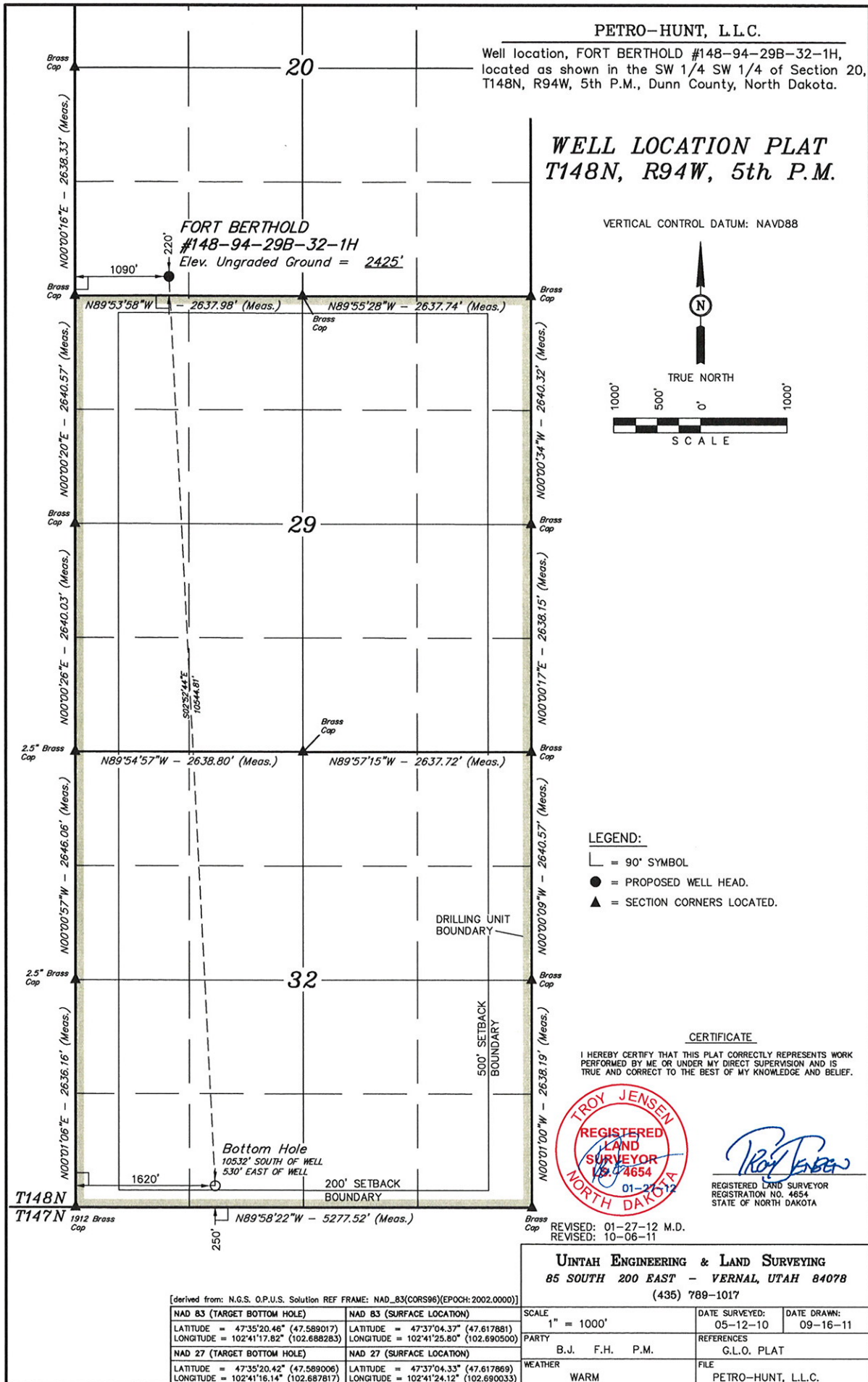
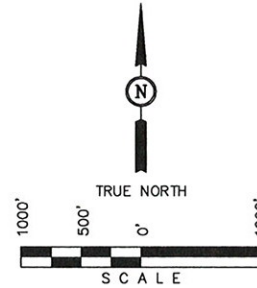
REV: 10-06-11 C.I.

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #148-94-29B-32-1H,
located as shown in the SW 1/4 SW 1/4 of Section 20,
T148N, R94W, 5th P.M., Dunn County, North Dakota.

WELL LOCATION PLAT T148N, R94W, 5th P.M.

VERTICAL CONTROL DATUM: NAVD88



LEGEND:

- └ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS WORK
PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND IS
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Troy Jensen
REGISTERED LAND SURVEYOR
REGISTRATION NO. 4654
STATE OF NORTH DAKOTA

REVISED: 01-27-12 M.D.
REVISED: 10-06-11

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

[derived from: N.G.S. O.P.U.S. Solution REF FRAME: NAD_83(CORS96)(EPOCH: 2002.0000)]

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LONGITUDE = 102°41'17.82" (102.688283)	LONGITUDE = 102°41'25.80" (102.690500)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 47°35'20.42" (47.589006)	LATITUDE = 47°37'04.33" (47.617869)
LONGITUDE = 102°41'16.14" (102.687817)	LONGITUDE = 102°41'24.12" (102.690033)

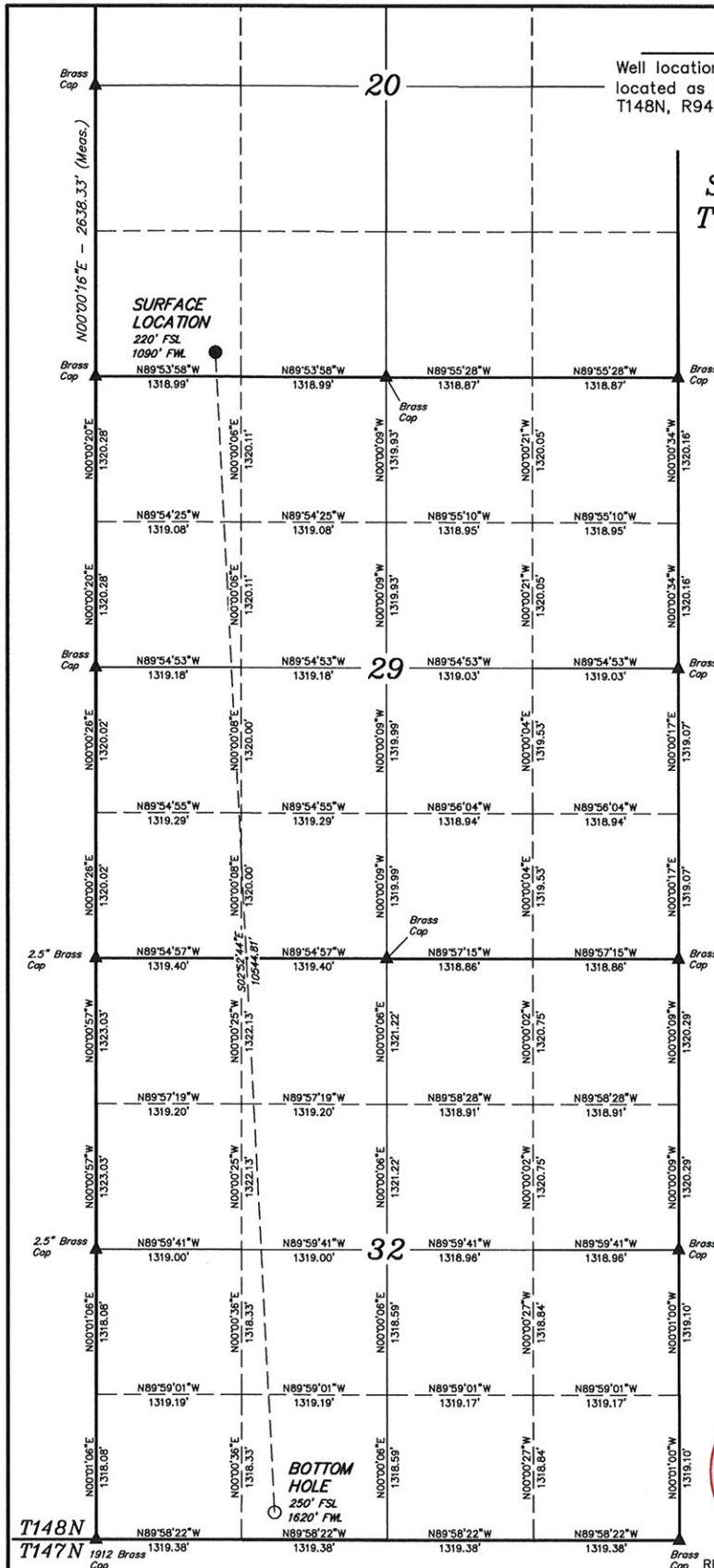
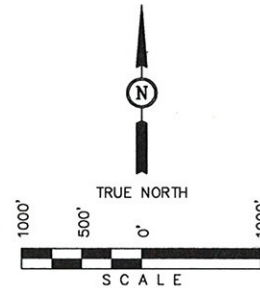
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PARTY B.J. F.H. P.M.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE PETRO-HUNT, L.L.C.	

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #148-94-29B-32-1H,
located as shown in the SW 1/4 SW 1/4 of Section 20,
T148N, R94W, 5th P.M., Dunn County, North Dakota.

SECTION BREAKDOWN T148N, R94W, 5th P.M.

VERTICAL CONTROL DATUM: NAVD88



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Troy Jensen
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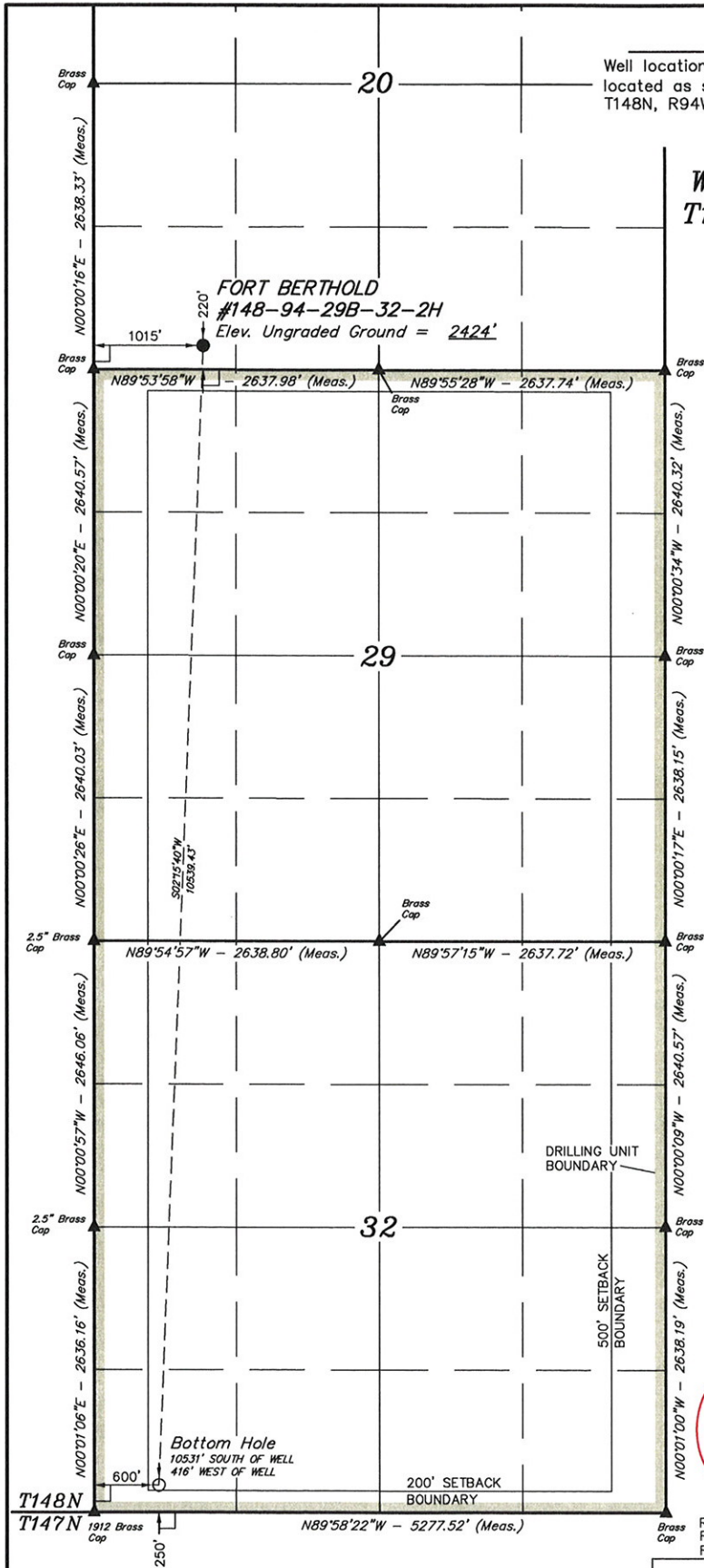
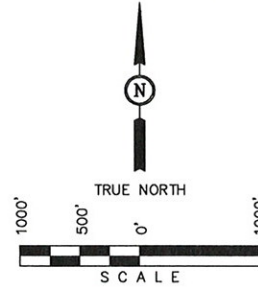
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WEATHER WARM	FILE PETRO-HUNT, L.L.C.	

PETRO-HUNT, L.L.C.

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WELL LOCATION PLAT T148N, R94W, 5th P.M.

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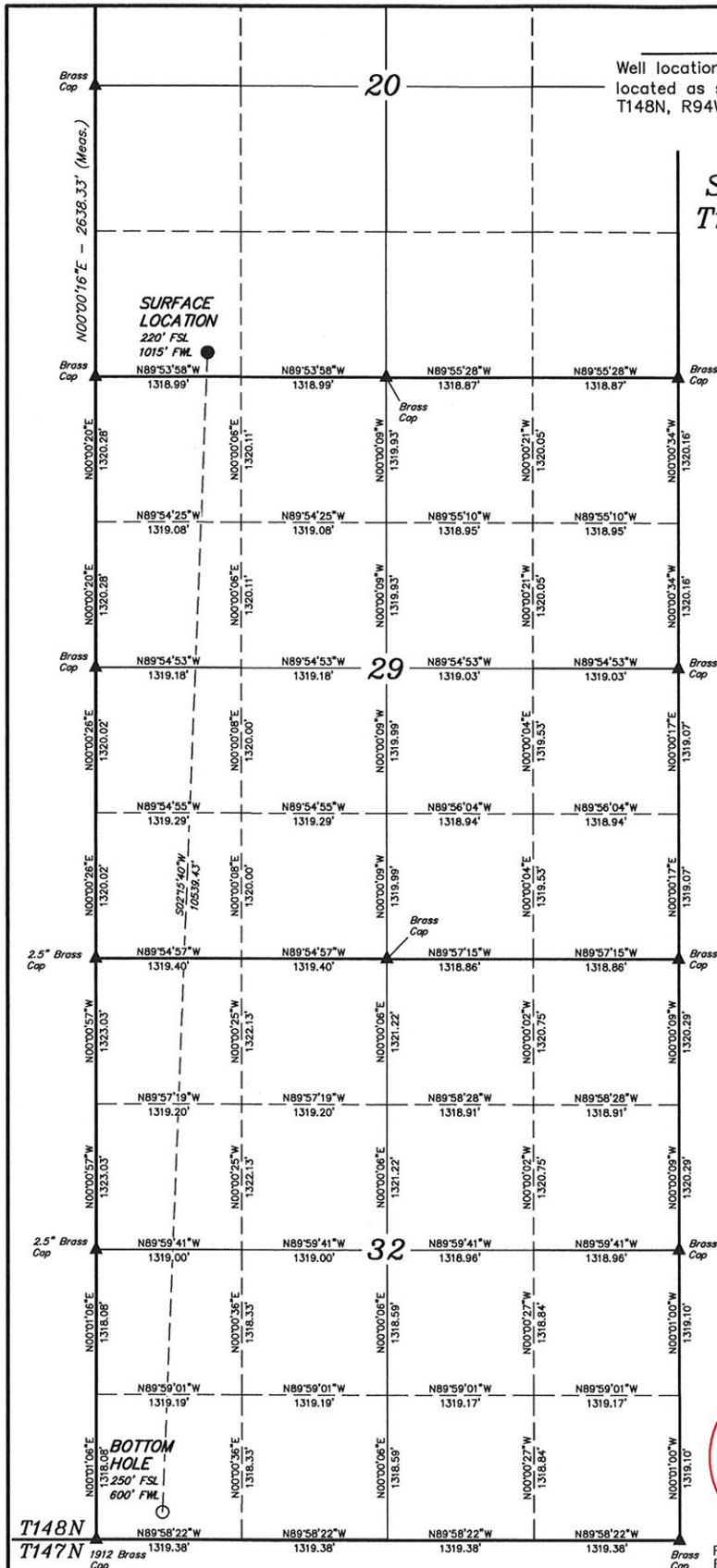
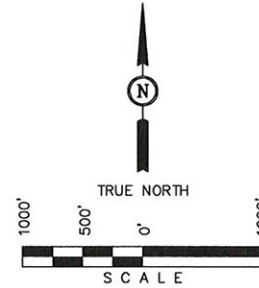
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PARTY B.J. F.H. P.M.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE PETRO-HUNT, L.L.C.	

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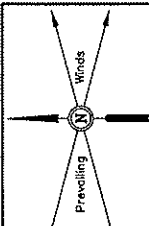
REVISED: 01-27-12 M.D.
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REVISED: 09-16-11

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NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 47°35'20.40" (47.589000)	LATITUDE = 47°37'04.33" (47.617869)
LONGITUDE = 102°41'31.02" (102.691950)	LONGITUDE = 102°41'25.20" (102.690333)

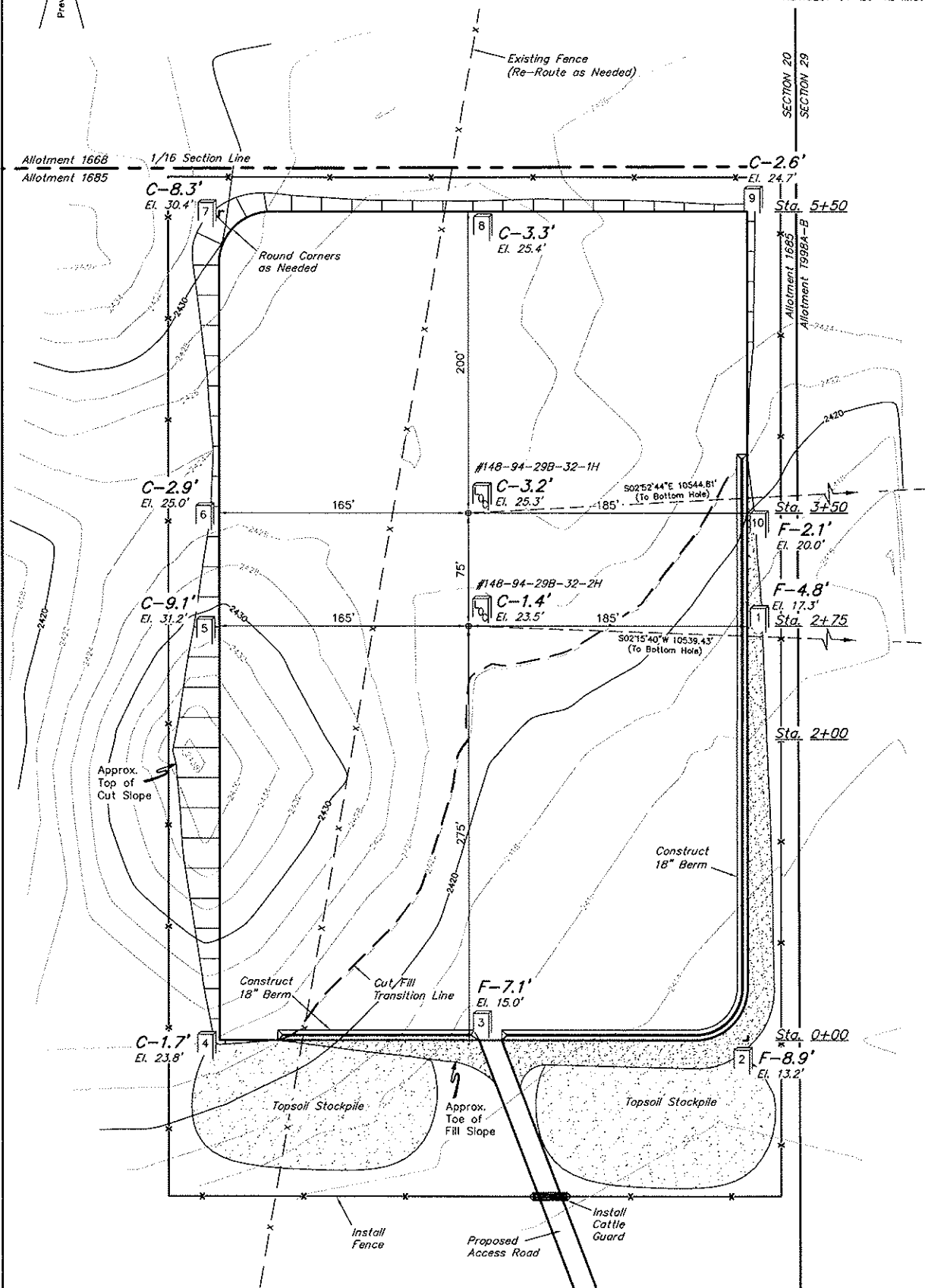
SCALE 1" = 1000'	DATE SURVEYED: 05-12-10	DATE DRAWN: 06-04-10
PARTY B.J. F.H. P.M.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE PETRO-HUNT, L.L.C.	



PETRO-HUNT, L.L.C.
PAD LAYOUT FOR
FORT BERTHOLD #148-94-29B-32-1H
& #148-94-29B-32-2H
SECTION 20, T148N, R94W, 5th P.M.
SW 1/4 SW 1/4

FIGURE #1

SCALE: 1" = 60'
DATE: 06-04-10
DRAWN BY: P.M.
REVISED: 12-14-10
REVISED: 09-16-11
REVISED: 10-06-11
REVISED: 11-11-11 M.D.
REVISED: 01-20-12 M.D.



Elev. Ungraded Ground At #148-94-29B-32-1H Loc. Stake = 2425.3'
FINISHED GRADE ELEV. AT #148-94-29B-32-1H LOC. STAKE = 2422.1'

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1" = 40'

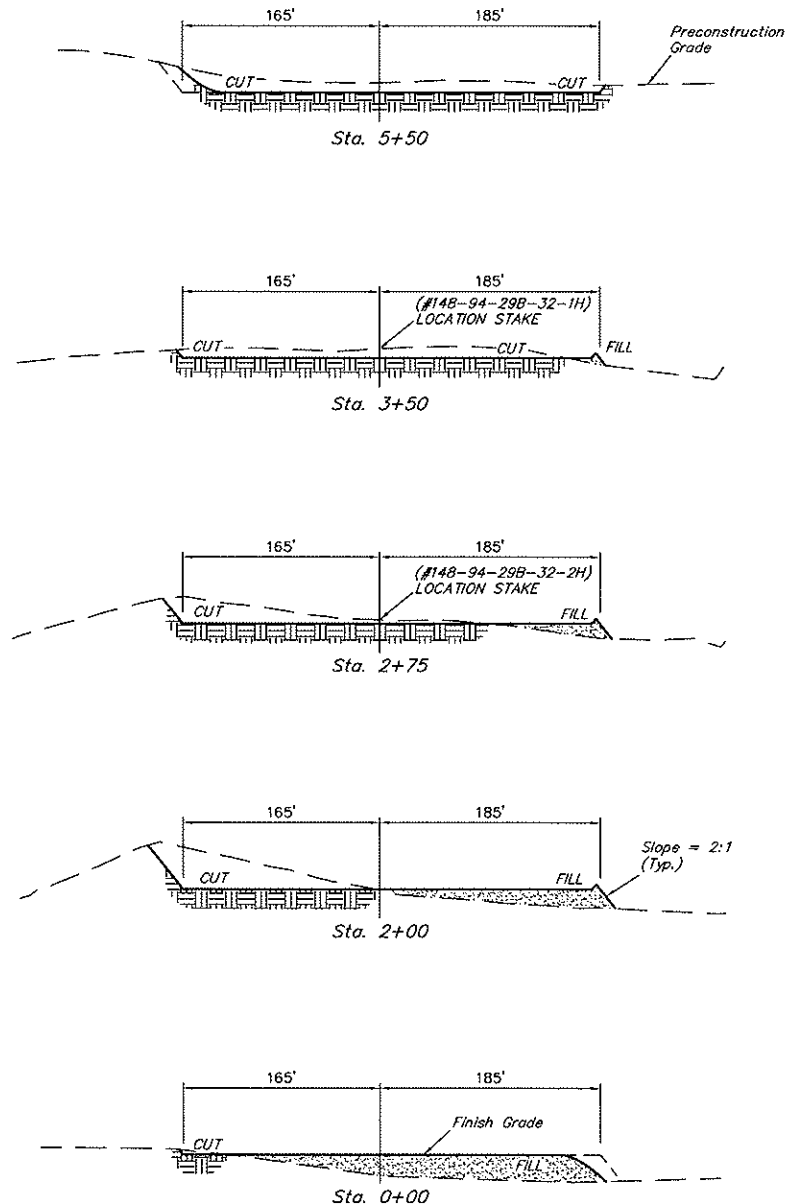
X-Section
Scale
1" = 100'

DATE: 06-04-10
DRAWN BY: P.M.
REVISED: 12-14-10
REVISED: 09-16-11
REVISED: 10-06-11
REVISED: 11-11-11 M.D.
REVISED: 01-20-12 M.D.

PETRO-HUNT, L.L.C.

TYPICAL CROSS SECTIONS FOR
FORT BERTHOLD #148-94-29B-32-1H
& #148-94-29B-32-2H
SECTION 20, T148N, R94W, 5th P.M.
SW 1/4 SW 1/4

FIGURE #2



APPROXIMATE ACREAGES

WELL SITE AREA OF LOSS = ± 6.307 ACRES
ALLOTMENT 1118A RIGHT-OF-WAY AREA OF LOSS = ± 3.141 ACRES
ALLOTMENT 1197 RIGHT-OF-WAY AREA OF LOSS = ± 1.990 ACRES
ALLOTMENT 1998A-B RIGHT-OF-WAY AREA OF LOSS = ± 0.830 ACRES
ALLOTMENT 1685 RIGHT-OF-WAY AREA OF LOSS = ± 0.855 ACRES
TOTAL RIGHT-OF-WAY AREA OF LOSS = ± 6.817 ACRES
TOTAL = ± 13.124 ACRES

* NOTE:
FILL QUANTITY INCLUDES
30% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 3,980 Cu. Yds.
Remaining Location = 17,240 Cu. Yds.

TOTAL CUT = 21,220 CU. YDS.
FILL = 17,240 CU. YDS.

EXCESS MATERIAL = 3,980 Cu. Yds.
Topsoil = 3,980 Cu. Yds.

EXCESS UNBALANCE = 0 Cu. Yds.
(After Interim Rehabilitation)

TOTAL NUMBER OF C.M.P.S. TO
BE UPGRADED OR INSTALLED = 1

TOTAL NUMBER OF CATTLE GUARDS
TO BE UPGRADED OR INSTALLED = 1

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PETRO-HUNT, L.L.C.

SITE QUANTITIES FOR

FORT BERTHOLD #148-94-29B-32-1H
& #148-94-29B-32-2H
SECTION 20, T148N, R94W, 5th P.M.
SW 1/4 SW 1/4

FIGURE #3

SCALE: NONE
DATE: 01-20-12
DRAWN BY: M.D.

Elev. Ungraded Ground At #148-94-29B-32-1H Loc. Stake = **2425.3'**
FINISHED GRADE ELEV. AT #148-94-29B-32-1H LOC. STAKE = **2422.1'**

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 3,980 Cu. Yds.
Remaining Location = 17,240 Cu. Yds.

TOTAL CUT = 21,220 CU. YDS.
FILL = 17,240 CU. YDS.
(FILL QUANTITY INCLUDES
30% FOR COMPACTION)

EXCESS MATERIAL = 3,980 Cu. Yds.
Topsoil = 3,980 Cu. Yds.

EXCESS UNBALANCE = 0 Cu. Yds.
(After Interim Rehabilitation)

APPROXIMATE ACREAGES

DISTURBED AREA FROM PAD = ± 5.436 ACRES
TOTAL = ± 5.436 ACRES

WELL SITE AREA OF LOSS (FENCED AREA) = ± 6.307 ACRES
ALLOTMENT 1118A RIGHT-OF-WAY AREA OF LOSS = ± 3.141 ACRES
ALLOTMENT 1197 RIGHT-OF-WAY AREA OF LOSS = ± 1.990 ACRES
ALLOTMENT T998A-B RIGHT-OF-WAY AREA OF LOSS = ± 0.830 ACRES
ALLOTMENT 1685 RIGHT-OF-WAY AREA OF LOSS = ± 0.855 ACRES
TOTAL RIGHT-OF-WAY AREA OF LOSS = ± 6.817 ACRES
TOTAL = ± 13.124 ACRES

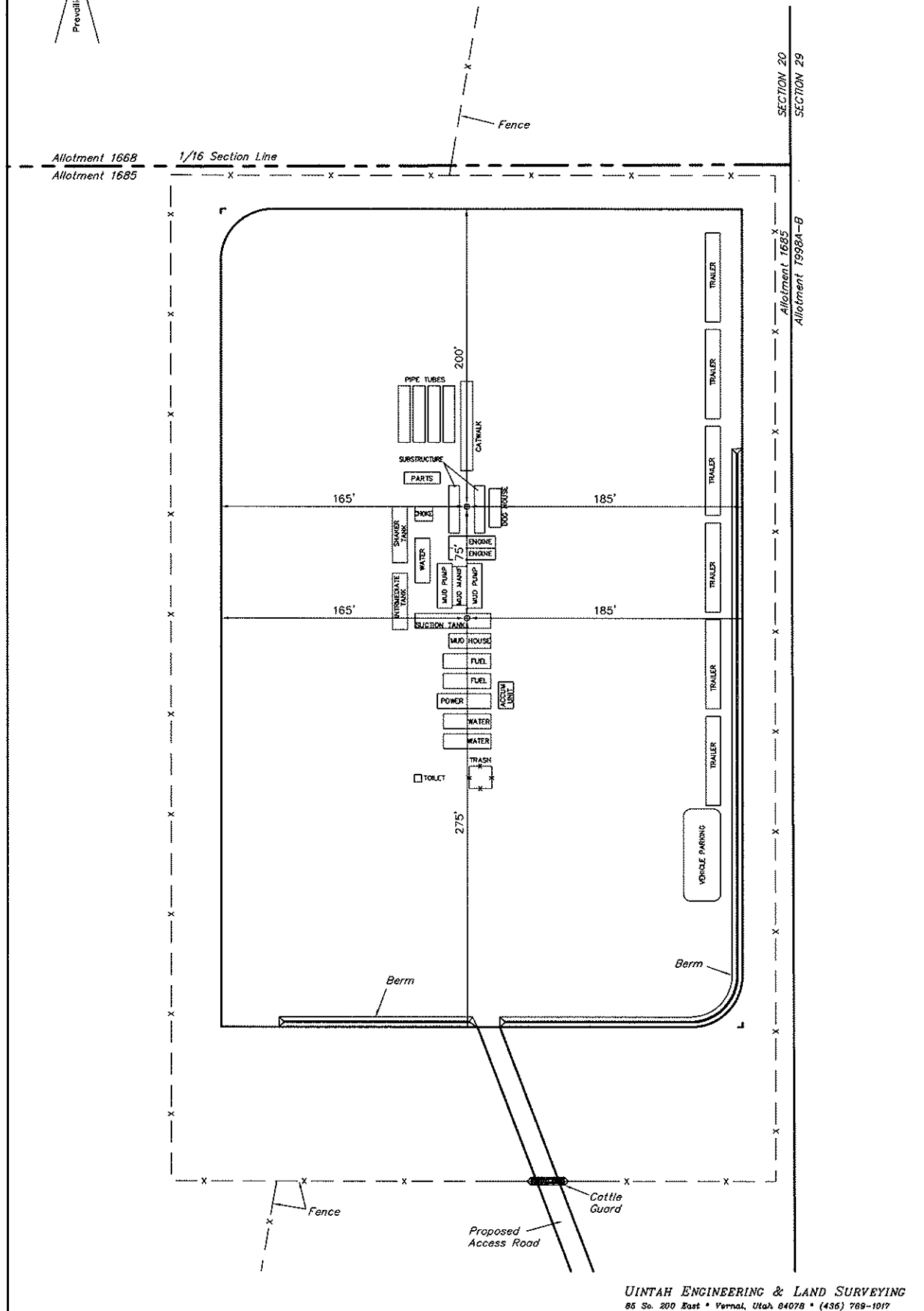
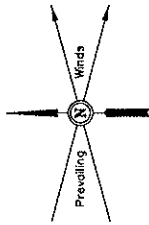
* NOTE:

Cut/Fill Slope = 2:1 (Typ. Except Where Noted)

RIG LAYOUT FOR

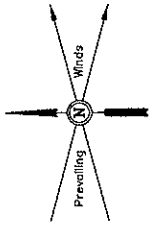
FIGURE #4

SCALE: 1" = 60'
DATE: 06-04-10
DRAWN BY: P.M.
REVISED: 12-14-10
REVISED: 09-16-11
REVISED: 10-06-11
REVISED: 11-11-11 M.D.
REVISED: 01-20-12 M.D.



SCALE: 1" = 60'
DATE: 06-04-10
DRAWN BY: P.M.
REVISED: 12-14-10
REVISED: 09-16-11
REVISED: 10-06-11
REVISED: 11-11-11 M.D.
REVISED: 01-20-12 M.D.

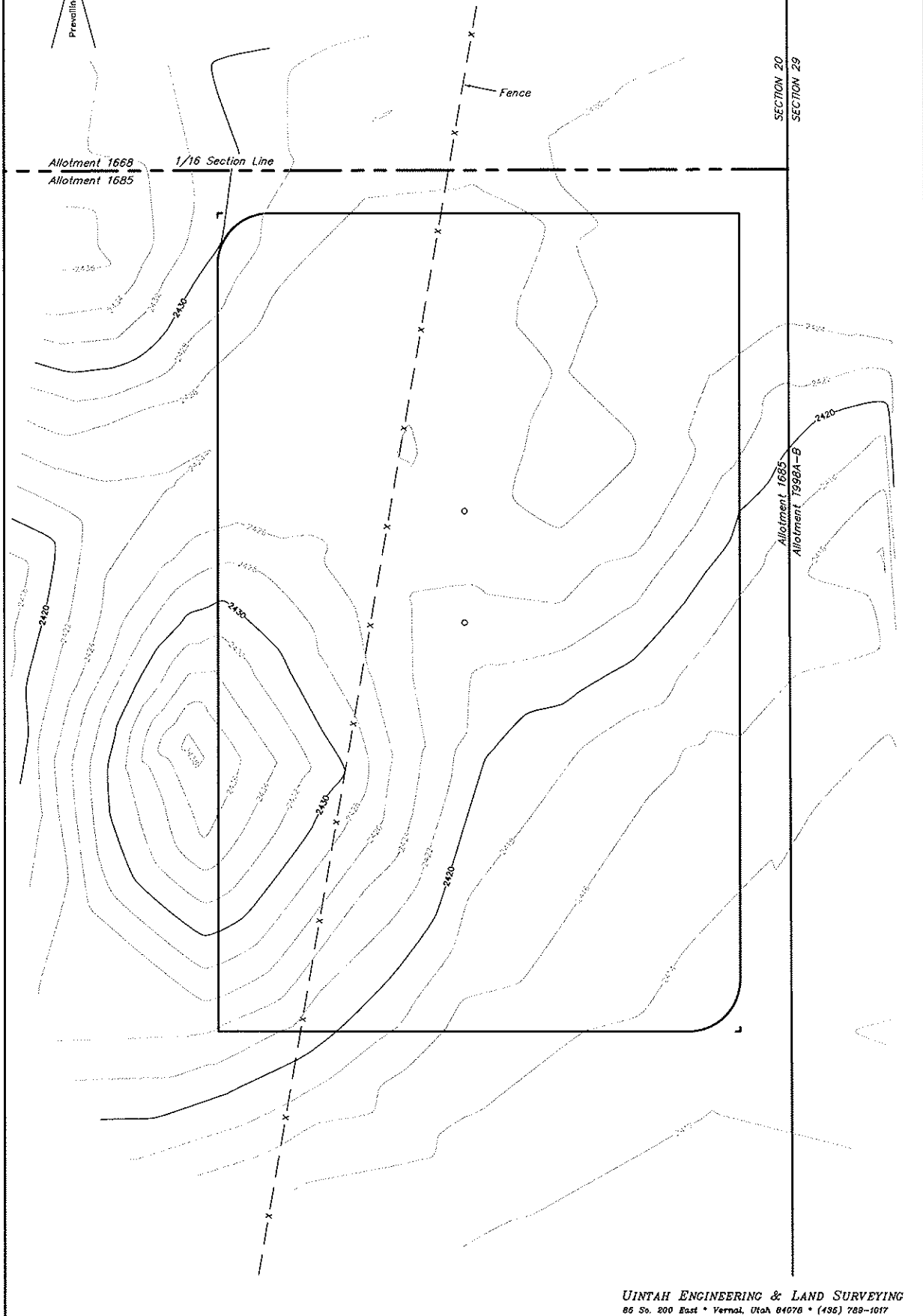




PETRO-HUNT, L.L.C.
FINAL RECLAMATION FOR
FORT BERTHOLD #148-94-29B-32-1H
& #148-94-29B-32-2H
SECTION 20, T148N, R94W, 5th P.M.
SW 1/4 SW 1/4

FIGURE #6

SCALE: 1" = 60'
DATE: 09-16-11
DRAWN BY: P.M.
REVISED: 10-06-11
REVISED: 11-11-11 M.D.
REVISED: 01-20-12 M.D.



ROAD & UTILITIES RIGHT-OF-WAY ON TRIBAL LANDS

▲ = SECTION CORNERS LOCATED.

300' 150' 0' 300'

TRUE NORTH

S C A L E

I HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

REMSD: 01-20-12 M.D.
REMSD: 11-11-11 M.D.
REMSD: 10-06-11
REMSD: 09-16-11
REMSD: 08-17-10

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85 SOUTH - 200 EAST • (435) 789-1017
VERNAL, UTAH - 84078

SCALE	DATE
1" = 300'	06-04-10
PARTY	REFERENCES
B.L. F.H. P.M.	G.L.O. PLAT
WEATHER	FILE
WARM	4 9 8 4 1

<i>RIGHT-OF-WAY LENGTHS</i>			
PROPERTY OWNER	FEET	ACRES	RODS
11118A	1366.42	3.141	82.93
11197	866.80	1.980	52.54
T998A-B	361.53	0.830	21.91
1685	372.58	0.855	22.58
TOTAL ON TRIBAL LANDS	2869.43	6.817	179.97

NOTE:
ALL DESIGNED STORM WATER PIPES
ARE SIZED TO MEET A MINIMUM 25
YEAR EVENT.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S3930.45°E	82.74'
L2	S4453.36°E	236.61'
L3	S4137.38°E	446.08'
L4	S4648.10°E	225.51'
L5	S4854.03°E	122.18'
L6	S4851.28°E	85.39'
L7	S5631.26°E	122.35'
L8	SE044.41°E	17.54'
L9	SE044.41°E	246.41'
L10	S5648.53°E	361.83'
L11	N361.338°E	149.81'
L12	N4439.49°E	78.85'
L13	N4549.49°E	56.64'
L14	N5870.44°E	158.99'
L15	N6143.20°E	93.34'
L16	N6143.20°E	95.34'
L17	N6206.37°E	202.71'
L18	N6920.37°E	74.53'
L19	N6920.37°E	110.87'

NOTE:
ALL DESIGNER
ARE SIZED 7
YEAR EVENT

PROPERTY OWNER	FEET	ACRES	RODS
1118A	1368.42	3.141	82.93
1197	866.90	1.990	52.54
T998A-B	361.53	0.830	21.91
1685	372.58	0.855	22.58
TOTAL ON TRIBAL LANDS	2869.43	6.817	179.97

1118A

1118B

SE 1/4

1/16 Section Line

BEGINNING OF PROPOSED ROAD & UTILITIES RIGHT-OF-WAY STA. 0+00 (At Edge of Existing Oil Field Road)

END OF PROPOSED ROAD & UTILITIES RIGHT-OF-WAY STA. 29+69.43 (At Edge of Surface Use Area)

Section Line

N00°00'16"E - 2638.33' (Meas.)

1118A

1118B

1118C

1118D

1118E

1118F

1118G

1118H

1118I

1118J

1118K

1118L

1118M

1118N

1118O

1118P

1118Q

1118R

1118S

1118T

1118U

1118V

1118W

1118X

1118Y

1118Z

1118AA

1118AB

1118AC

1118AD

1118AE

1118AF

1118AG

1118AH

1118AI

1118AJ

1118AK

1118AL

1118AM

1118AN

1118AO

1118AP

1118AQ

1118AR

1118AS

1118AT

1118AU

1118AV

1118AW

1118AX

1118AY

1118AZ

1118BA

1118BB

1118BC

1118BD

1118BE

1118BF

1118BG

1118BH

1118BI

1118BJ

1118BK

1118BL

1118BM

1118BN

1118BO

1118BP

1118BQ

1118BR

1118BS

1118BT

1118BU

1118BV

1118BW

1118BX

1118BY

1118BZ

1118CA

1118CB

1118CC

1118CD

1118CE

1118CF

1118CG

1118CH

1118CI

1118CJ

1118CK

1118CL

1118CM

1118CN

1118CO

1118CP

1118CQ

1118CR

1118CS

1118CT

1118CU

1118CV

1118CW

1118CX

1118CY

1118CZ

1118DA

1118DB

1118DC

1118DD

1118DE

1118DF

1118DG

1118DH

1118DI

1118DJ

1118DK

1118DL

1118DM

1118DN

1118DO

1118DP

1118DQ

1118DR

1118DS

1118DT

1118DU

1118DV

1118DW

1118DX

1118DY

1118DZ

1118EA

1118EB

1118EC

1118ED

1118EE

1118EF

1118EG

1118EH

1118EI

1118EJ

1118EK

1118EL

1118EM

1118EN

1118EO

1118EP

1118EQ

1118ER

1118ES

1118ET

1118EU

1118EV

1118EW

1118EX

1118EY

1118EZ

1118FA

1118FB

1118FC

1118FD

1118FE

1118FF

1118FG

1118FH

1118FI

1118FJ

1118FK

1118FL

1118FM

1118FN

1118FO

1118FP

1118FQ

1118FR

1118FS

1118FT

1118FU

1118FV

1118FW

1118FX

1118FY

1118FZ

1118GA

1118GB

1118GC

1118GD

1118GE

1118GF

1118GG

1118GH

1118GI

1118GJ

1118GK

1118GL

1118GM

1118GN

1118GO

1118GP

1118GQ

1118GR

1118GS

1118GT

1118GU

1118GV

1118GW

1118GX

1118GY

1118GZ

1118HA

1118HB

1118HC

1118HD

1118HE

1118HF

1118HG

1118HH

1118HI

1118HJ

1118HK

1118HL

1118HM

1118HN

1118HO

1118HP

1118HQ

1118HR

1118HS

1118HT

1118HU

1118HV

1118HW

1118HX

1118HY

1118HZ

1118IA

1118IB

1118IC

1118ID

1118IE

1118IF

1118IG

1118IH

1118II

1118IJ

1118IK

1118IL

1118IM

1118IN

1118IO

1118IP

1118IQ

1118IR

1118IS

1118IT

1118IU

1118IV

1118IW

1118IX

1118IY

1118IZ

1118JA

1118JB

1118JC

1118JD

1118JE

1118JF

1118JG

1118JH

1118JI

1118JJ

1118JK

1118JL

1118JM

1118JN

1118JO

1118JP

1118JQ

1118JR

1118JS

1118JT

1118JU

1118JV

1118JW

1118JX

1118JY

1118JZ

1118KA

1118KB

1118KC

1118KD

1118KE

1118KF

1118KG

1118KH

1118KI

1118KJ

1118KK

1118KL

1118KM

1118KN

11

ROAD & UTILITIES RIGHT-OF-WAY DESCRIPTION

A 100' WIDE RIGHT-OF-WAY 50' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING STA. 0+00 BEARS N58°54'16"W
1908.52' FROM THE SOUTHEAST CORNER
OF SECTION 19, T148N, R94W, 5th P.M.

BEGINNING AT POINT IN THE SW 1/4 SE 1/4 OF SECTION 19, T.48N, R.94W, 5th P.M., WHICH BEARS N85°54.16'W, 1908.52' FROM THE SOUTHEAST CORNER OF SAID SECTION 19, THENCE S38°30.45'E, 82.74'; THENCE S44°53.06'E, 126.61'; THENCE S41°37'28"E, 44.08'; THENCE S46°48'10"E, 255.53'; THENCE S38°53.03'E, 122.18'; THENCE S48°51'38"E, 85.39'; THENCE S56°31'28"E, 122.25'; THENCE S50°44.41'E, 17.54', TO A POINT ON THE NORTH LINE OF THE SW 1/4 SE 1/4 OF SAID SECTION 19, THENCE BEARS N89°59.54'E, 662.87' FROM THE SOUTHEAST CORNER OF SAID SECTION 19, THENCE S50°44.41'E, 246.41'; THENCE S36°48'35"E, 591.83'; THENCE N26°13'58"E, 149.81'; THENCE N44°49'49"E, 78.85', TO A POINT ON THE EAST LINE OF THE NE 1/4 NE 1/4 OF SECTION 30, T.48N, R.94W, 5th P.M., WHICH BEARS S00°00'20" W, 193.60' FROM THE NORTHEAST CORNER OF SAID SECTION 30, THENCE N44°49'44"E, 56.54'; THENCE N58°20'44"E, 166.09'; THENCE N61°43'20"E, 138.90', TO A POINT ON THE NORTH LINE OF THE NW 1/4 NW 1/4 OF SECTION 29, T.48N, R.94W, 5th P.M., WHICH BEARS S89°53.98'E, 303.55' FROM THE NORTHEAST CORNER OF SAID SECTION 29, THENCE N61°43'20"E, 95.34'; THENCE N62°06'37"E, 202.71'; THENCE N69°20'37"E, 74.53', TO A POINT IN THE SW 1/4 SW 1/4 OF SECTION 19, T.48N, R.94W, 5th P.M., WHICH BEARS N75°24.09'E, 657.65' FROM THE SOUTHWEST CORNER OF SAID SECTION 20. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION, CONTAINS 6.817 ACRES MORE OR LESS.

Sec. 30

Sec. 29

PETRO-HUNT, L.L.C.
FORT BERTHOLD #148-94-29B-32-1H
& #148-94-29B-32-2H
ROAD AND UTILITIES RIGHT-OF-WAY
SECTIONS 19, 20, 29 & 30, T148N, R94W, 5th P.M.

TOTAL ROAD & UTILITIES RIGHT-OF-WAY ON TRIBAL LANDS


TOTAL LENGTH OF RIGHT-OF-WAY IS 2969.43' OR 0.562 MILES. WIDTH OF RIGHT-OF-WAY IS 100' (50' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 6.817 ACRES MORE OR LESS.

ENGINEER'S AFFIDAVIT

STATE OF MONTANA }
COUNTY OF RICHLAND } SS

TROY JENSEN, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR, FOR PETRO-HUNT, L.L.C., THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER HIS SUPERVISION): THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE ROAD & UTILITIES RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED UNDER HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHT-OF-WAY, 0.562 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.




REGISTERED LAND SURVEYOR
REGISTRATION NO. 4654
STATE OF NORTH DAKOTA

APPLICANT'S CERTIFICATE

I, _____, DO HEREBY CERTIFY THAT I AM THE AGENT FOR PETRO-HUNT, L.L.C., HEREINAFTER DESIGNATED THE APPLICANT; THAT TROY JENSEN WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS ROAD & UTILITIES RIGHT-OF-WAY, 0.562 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 29+69.43, THAT SAID ROAD & UTILITIES RIGHT-OF-WAY IS ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT-OF-WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT-OF-WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT-OF-WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

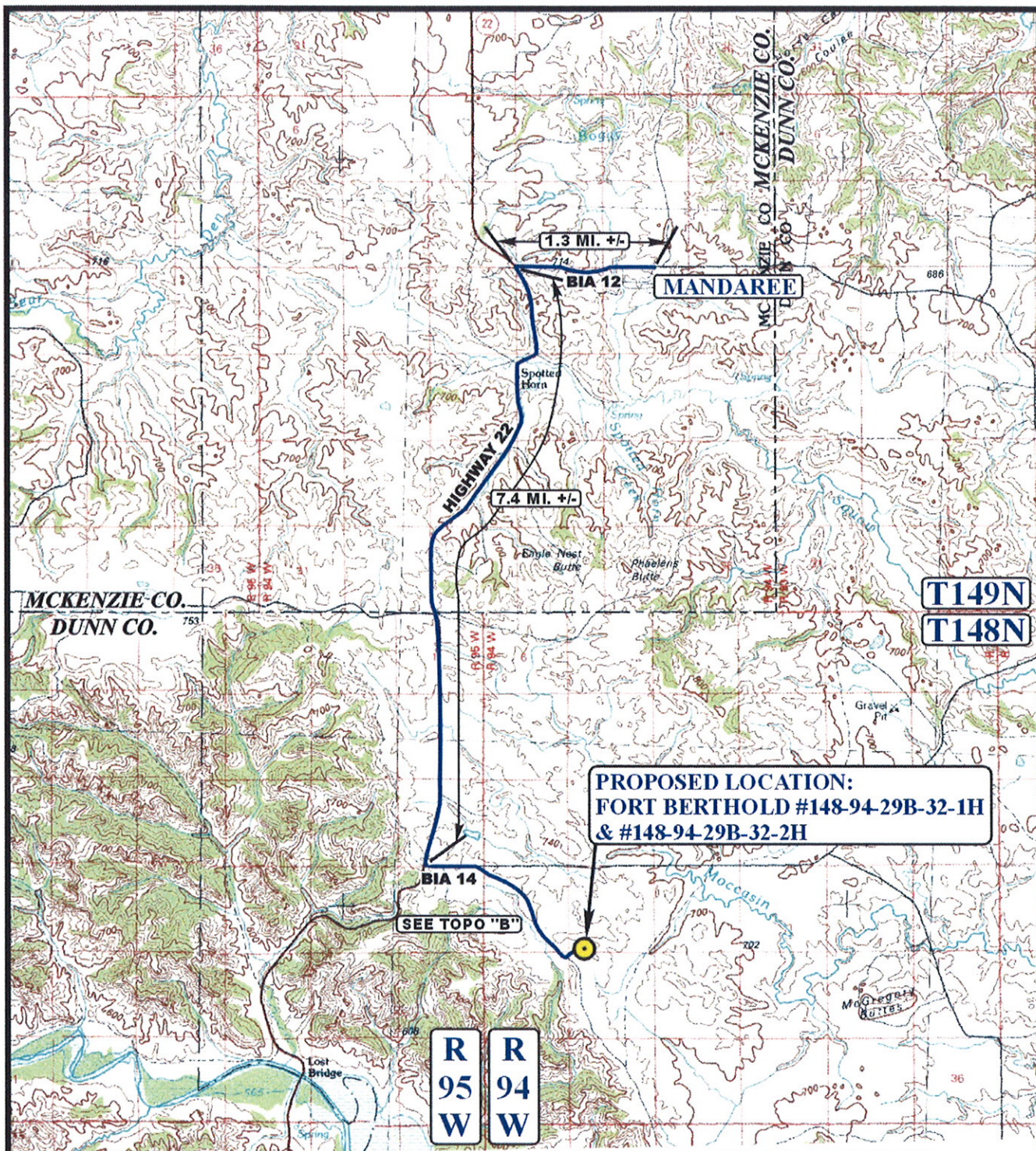
APPLICANT

TITLE

PETRO HUNT, L.L.C.
FORT BERTHOLD #148-94-29B-32-1H &
#148-94-29B-32-2H
SECTION 20, T148N, R94W, 5th P.M.

PROCEED IN A WESTERLY DIRECTION FROM MANDAREE, NORTH DAKOTA ALONG BIA 12 APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND HIGHWAY 22 TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 7.4 MILES TO THE JUNCTION OF THIS ROAD AND BIA 14 TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 1.1 MILES TO THE PROPOSED ACCESS ROAD TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 3,080' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM MANDAREE, NORTH DAKOTA TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 11.2 MILES.



LEGEND:

● PROPOSED LOCATION

N

PETRO-HUNT, L.L.C.

FORT BERTHOLD #148-94-29B-32-1H
& #148-94-29B-32-2H
SECTION 20, T148N, R94W, 5th P.M.
SW 1/4 SW 1/4



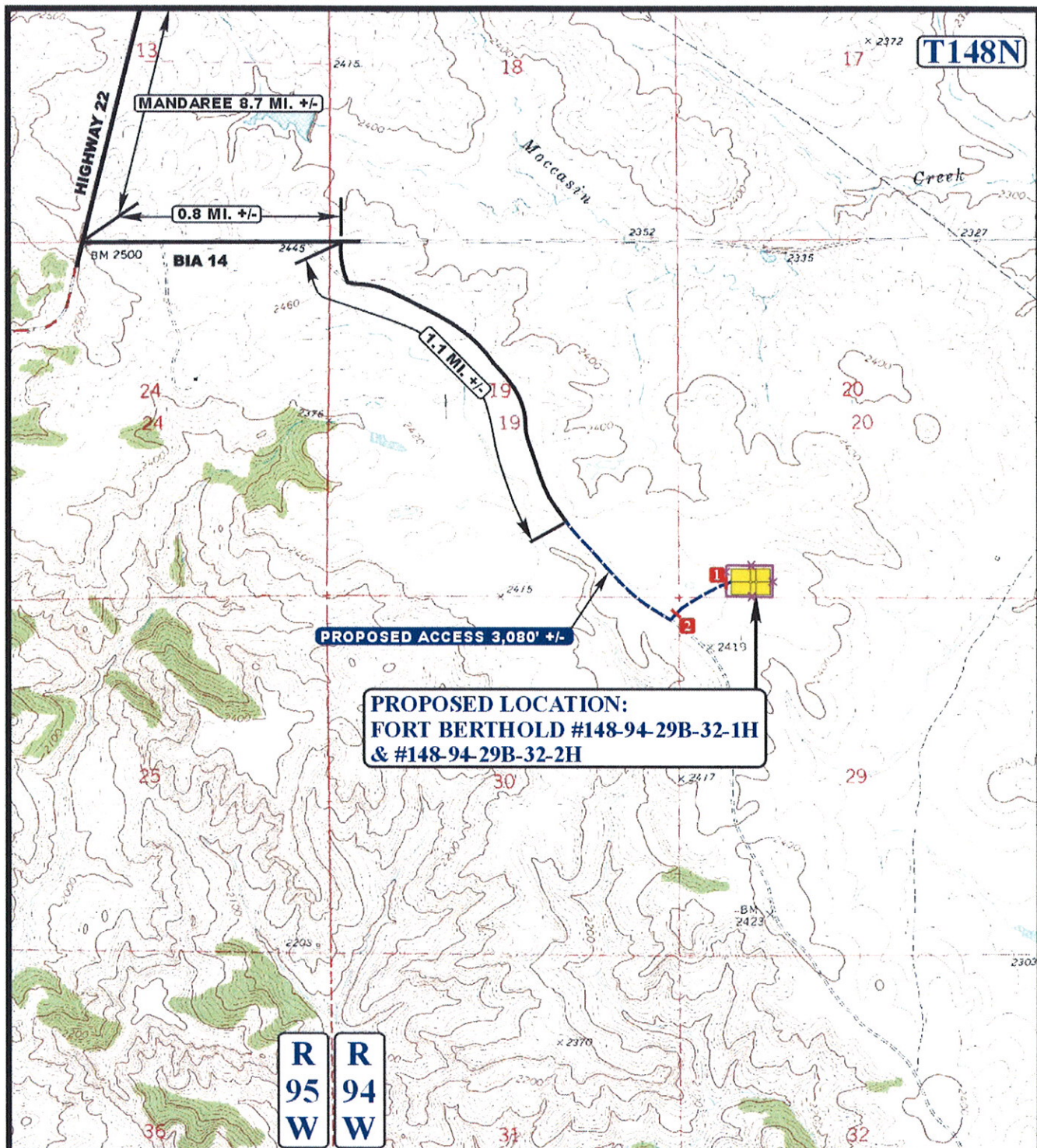
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD
MAP

05 21 10
MONTH DAY YEAR

A
TOPO

SCALE: 1:100,000 DRAWN BY: J.H. REV: 11-14-11 C.I.



LEGEND:

- EXISTING ROAD
- - - PROPOSED ACCESS ROAD
- * * * * * PROPOSED FENCE
- 1 INSTALL CATTLE GUARD 2 18" CMP REQUIRED

PETRO-HUNT, L.L.C.

**FORT BERTHOLD #148-94-29B-32-1H
& #148-94-29B-32-2H
SECTION 20, T148N, R94W, 5th P.M.
SW 1/4 SW 1/4**



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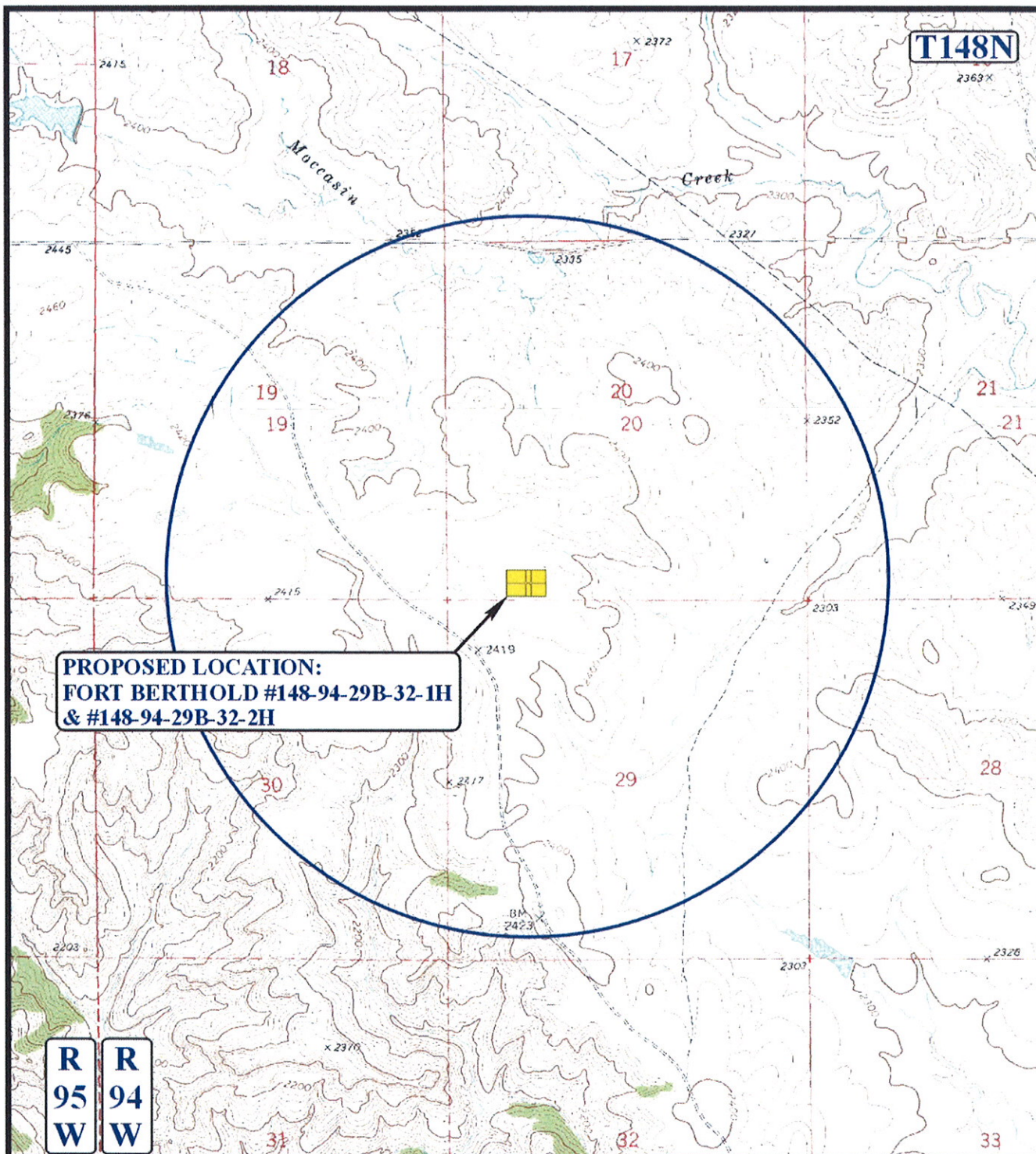


**ACCESS ROAD
MAP**

05 21 10
MONTH DAY YEAR

**B
TOPO**

SCALE: 1" = 2000' DRAWN BY: J.H. REV: 01-23-12 C.I.



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

PETRO-HUNT, L.L.C.

**FORT BERTHOLD #148-94-29B-32-1H
& #148-94-29B-32-2H
SECTION 20, T148N, R94W, 5th P.M.
SW 1/4 SW 1/4**



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC **05 21 10**
MAP MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.H. REV: 01-23-12 C.I.



Notice of Availability and Appeal Rights

Petro-Hunt, LLC: Addendum to Environmental Assessment Authorizing One Additional Well and Authorizing Land Use for a Shift of the Fort Berthold #149-94-29B-32-1H Well Pad

The Bureau of Indian Affairs (BIA) is planning to issue administrative approvals related to an Addendum to Authorize One Additional Well and Authorize Land Use for a Shift of the Fort Berthold #149-94-29B-32-1H Well on the Fort Berthold Reservation as shown on the attached map. Construction by Petro-Hunt is expected to begin in 2012.

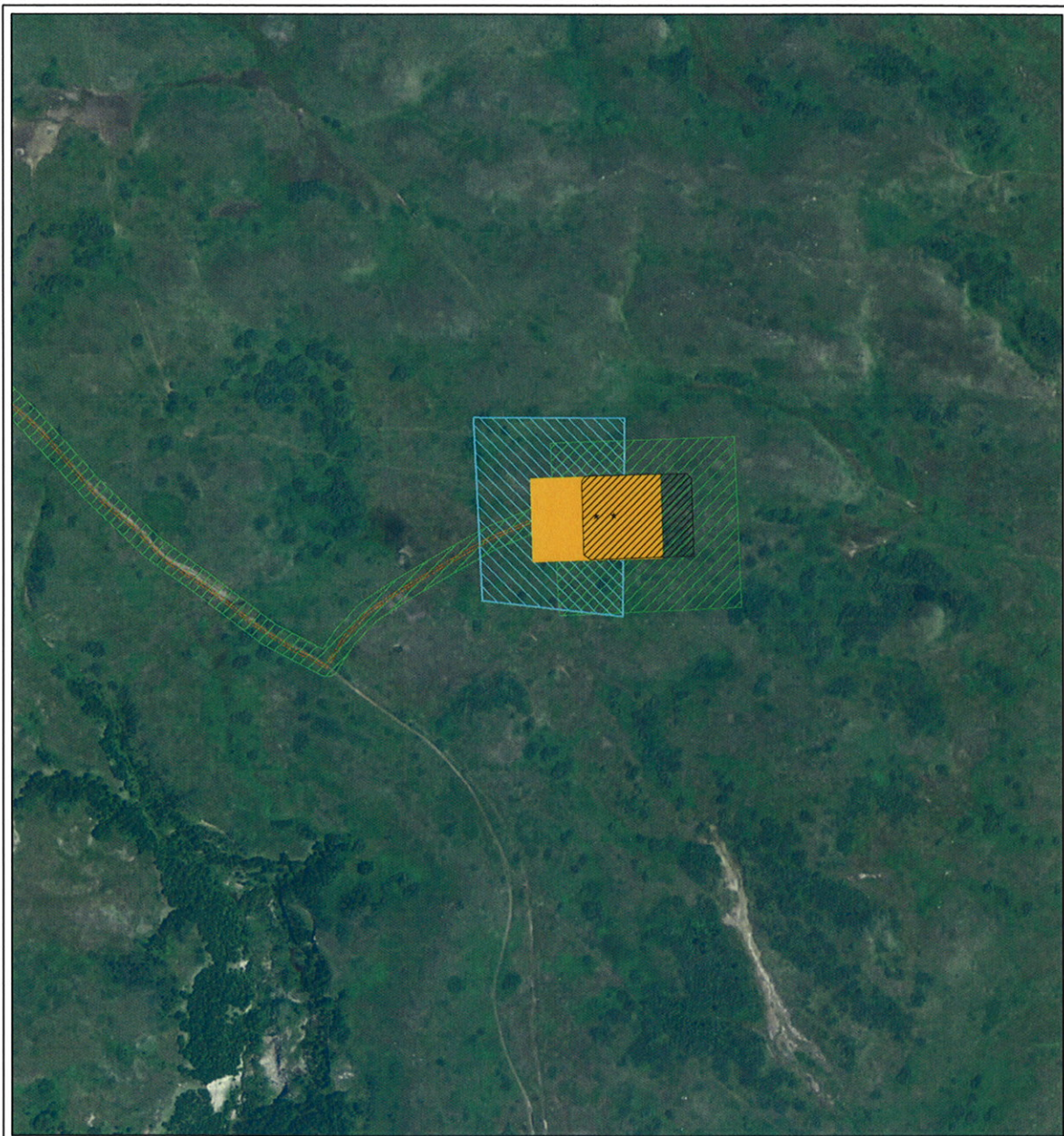
An environmental assessment (EA) determined that proposed activities will not cause significant impacts to the human environment. An environmental impact statement is not required. Contact Earl Silk, Superintendent at 701-627-4707 for more information and/or copies of the EA and the Finding of No Significant Impact (FONSI).

The FONSI is only a finding on environmental impacts – it is not a decision to proceed with an action and *cannot* be appealed. BIA's decision to proceed with administrative actions *can* be appealed until March 6, 2012, by contacting:

**United States Department of the Interior
Office of Hearings and Appeals
Interior Board of Indian Appeals
801 N. Quincy Street, Suite 300, Arlington, Va 22203.**

Procedural details are available from the BIA Fort Berthold Agency at 701-627-4707.

Project locations.



Legend

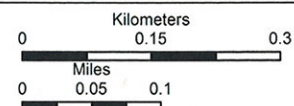
- Proposed Well Pad
- Proposed Well Head
- Proposed Access Road
- Expansion Survey Area
- Previously Surveyed Area
- Approved Well Pad

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Base Map: NAIP 1-meter Aerial Imagery
Source: ND GIS Hub
Quadrangle: Mandaree SW, (1973)
Township 148N & Range 94W
Dunn County, North Dakota



Scale: 1:6,500 NAD 1983 UTM Zone 13N